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**Abreu**

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(54) **APPARATUS AND METHOD FOR  
MEASURING BIOLOGIC PARAMETERS**

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claimer.

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See application file for complete search history.

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(57)

**ABSTRACT**

Support structures for positioning sensors on a physiologic  
tunnel for measuring physical, chemical and biological  
parameters of the body and to produce an action according to  
the measured value of the parameters. The support structure  
includes a sensor fitted on the support structures using a  
special geometry for acquiring continuous and undisturbed  
data on the physiology of the body. Signals are transmitted to  
a remote station by wireless transmission such as by electro-  
magnetic waves, radio waves, infrared, sound and the like or  
by being reported locally by audio or visual transmission. The  
physical and chemical parameters include brain function,  
metabolic function, hydrodynamic function, hydration status,  
levels of chemical compounds in the blood, and the like. The  
support structure includes patches, clips, eyeglasses, head  
mounted gear and the like, containing passive or active sen-  
sors positioned at the end of the tunnel with sensing systems  
positioned on and accessing a physiologic tunnel.

**9 Claims, 53 Drawing Sheets**

